

ENVIRONMENTAL GEOSCIENCE - BS

The increasing demands that population growth and affluence put on the natural resources and the Earth's environment require greater numbers of trained professionals and informed citizens. The BS degree in Environmental Geosciences embraces all the disciplines of geosciences to give the student a rigorous interdisciplinary education including issues associated with environmental policy. The degree trains students for employment by industry, environmental and engineering consulting firms, non-governmental organizations, and governmental regulatory agencies, among other entities. Students focus coursework in a particular environmental theme: coastal and marine environments, water, human impact on the environment, climate change, or biosphere.

Program Requirements

First Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
GEOS 105	Introduction to Environmental Geoscience	3
MATH 151	Engineering Mathematics I	4
Semester Credit Hours		14

Spring

CHEM 120	Fundamentals of Chemistry II	4
GEOS 205	Environmental Geosciences Cornerstone	1
MATH 152	Engineering Mathematics II	4
POLS 206	American National Government	3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹		3
Semester Credit Hours		15

Second Year

Fall		Semester Credit Hours
BIOL 111	Introductory Biology I	4
GEOG 201	Introduction to Human Geography	3
Select one of the following: ²		4
ATMO 201 & ATMO 202	Weather and Climate and Weather and Climate Laboratory	
GEOG 203 & GEOG 213	Planet Earth and Planet Earth Lab	
GEOL 101 & GEOL 102	Principles of Geology or Introduction to the Solid Earth	
or		
GEOL 150		
OCNG 251 & OCNG 252	The Blue Planet - Our Oceans and The Blue Planet - Our Oceans Laboratory	
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹		3
Semester Credit Hours		14

Spring

BIOL 112	Introductory Biology II	4
POLS 207	State and Local Government	3
Select one of the following: ²		4
ATMO 201 & ATMO 202	Weather and Climate and Weather and Climate Laboratory	
GEOG 203 & GEOG 213	Planet Earth and Planet Earth Lab	
GEOL 101 & GEOL 102	Principles of Geology or Introduction to the Solid Earth	
or		
GEOL 150		
OCNG 251 & OCNG 252	The Blue Planet - Our Oceans and The Blue Planet - Our Oceans Laboratory	
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Semester Credit Hours		14

Third Year

Fall		Semester Credit Hours
GEOG 330	Resources and the Environment	3
STAT 303	Statistical Methods ³	3
or STAT 211	or Principles of Statistics I	
Select one of the following:		4
PHYS 201	College Physics ⁴	
PHYS 206 & PHYS 226	Newtonian Mechanics for Engineering and Science and Physics of Motion Laboratory for the Sciences	
Environmental theme elective ⁵		3
Technical elective ⁶		3
Semester Credit Hours		16

Spring

GEOG 390	Principles of Geographic Information Systems ⁷	4
GEOL 420	Environmental Geology	3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Environmental theme elective ⁵		3
Environmental policy elective ⁸		3
Semester Credit Hours		16

Fourth Year

Fall		Semester Credit Hours
OCNG 470	Data Analysis Methods in Geosciences	4
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Environmental theme elective ⁵		6
Technical elective ⁶		3
Semester Credit Hours		16
Spring		Semester Credit Hours
GEOS 405	Environmental Geosciences	3
Environmental theme elective ⁵		6

Environmental policy elective ⁸	3
Technical elective ⁶	3
Semester Credit Hours	15
Total Semester Credit Hours	120

¹ The graduation requirements include three hours of international and cultural diversity courses and three hours of cultural discourse courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

² Select one introductory course in the first semester and an additional one in the second semester of the sophomore year. Seek guidance from the academic advisor for Environmental Programs in Geosciences (ENVP) or your faculty mentor.

³ STAT 211 is recommended for the Coastal and Marine Environment Theme.

⁴ PHYS 206 and PHYS 226 is recommended for the Coastal and Marine Environment Theme.

⁵ Select 18 hours of theme courses in your junior and senior years in consultation with your academic advisor or faculty mentor from the list below.

Internship courses can be taken for up to 6 credits and will normally be used as an adjustment to theme electives, but depending on the content of the internship credit, it can be applied as an adjustment to your technical electives or policy electives. Seek guidance from the ENVP academic advisor.

⁶ Other courses which match the Environmental Programs' technical electives definition will be allowed by adjustment. Guidance about technical electives (including the definition used by the Environmental Programs in Geosciences) can be found on the programs' website. Seek guidance about choices from the ENVP academic advisor or faculty mentor.

⁷ GEOG 390 is a required technical elective.

⁸ Seek guidance about choices from the ENVP academic advisor or faculty mentor.

Two courses in the degree plan must be writing intensive courses designated by the Environmental Programs in the schedule of classes. Also, international and cultural diversity electives (3 hours) and cultural discourse electives (3 hours) must be incorporated into the degree.

Code	Title	Semester Credit Hours
Environmental Theme Electives		
Climate Change		
ATMO 210	Climate Change	3
ATMO 444	The Science and Politics of Global Climate Change	3
PHYS 202	College Physics	4
Select the remaining courses from the following:		
AGSM 477	Air Pollution Control and Regulatory Compliance	3
ATMO 363	Introduction to Atmospheric Chemistry and Air Pollution	3
ATMO 463	Air Quality	3
GEOG 324	Global Climatic Regions	3
GEOG 360	Natural Hazards	3

GEOG 442/ GEOS 442	Past Climates	3
GEOG 410/ OCNG 412	Global Change	3
GEOL 306	Sedimentology and Stratigraphy	4
GEOL 442/ GEOG 442	Past Climates	3
GEOL 443/ GEOG 443	Global Biogeochemical Cycles	3
GEOL 451	Introduction to Geochemistry	3
OCNG 310	Physical Oceanography	3
OCNG 340	Chemical Oceanography	3
OCNG 413	Polar Regions of the Earth: Science, Society and Discovery	3

Coastal and Marine Environments

GEOG 370/ GEOS 370	Coastal Processes	3
	or OCNG 41 or Global Oceanography	

Select the remaining courses from the following:

BIOL 440	Marine Biology	4
GEOG 331	Geomorphology	3
GEOG 360	Natural Hazards	3
GEOL 306	Sedimentology and Stratigraphy	4
GEOL 440	Engineering Geology	3
OCNG 310	Physical Oceanography	3
OCNG 320	Biological Oceanography	3
OCNG 330	Geological Oceanography	3
OCNG 340	Chemical Oceanography	3
OCNG 350	Marine Pollution	3
OCNG 404	Ocean Observing Systems	3
OCNG 413	Polar Regions of the Earth: Science, Society and Discovery	3
OCNG 425	Microbial Oceanography	3
OCNG 443	Oceanographic Field and Laboratory Methods	3
OCNG 453	Hydrothermal Vents and Mid-Ocean Ridges	3
RWFM 404	Aquatic Ecosystems	3
WFSC 425	Marine Fisheries	3

Human Impact on the Environment

GEOG 410/ OCNG 412	Global Change	3
GEOG 430	Environmental Justice	3
Select the remaining courses from the following:		
AGSM 477	Air Pollution Control and Regulatory Compliance	3
ARCH 421	Energy and Sustainable Architecture	3
ATMO 326	Environmental Atmospheric Science	3
ATMO 363	Introduction to Atmospheric Chemistry and Air Pollution	3
ATMO 444	The Science and Politics of Global Climate Change	3
BESC 367	U.S. Environmental Regulations	3

ECCB 318	Coupled Social and Ecological Systems	3	RWFM 440	Wetland Delineation	3
ECCB 320	Ecosystem Restoration and Management	3	SCSC 301	Soil Science	4
GEOG 309	Geography of Energy	3	SCSC 309	Water in Soils and Plants	3
GEOG 360	Natural Hazards	3	SCSC 310	Soil Morphology and Interpretations	3
GEOG 401	Political Geography	3	SCSC 405	Soil and Water Microbiology	3
GEOL 301	Mineral Resources	3	SCSC 455	Environmental Soil and Water Science	3
GEOL 404	Geology of Petroleum	3	SCSC 458	Watershed, Water and Soil Quality Management	3
GEOL 410	Hydrogeology	3	Biosphere		
GEOL 440	Engineering Geology	3	GEOG 335	Pattern and Process in Biogeography	3
GEOL 451	Introduction to Geochemistry	3	OCNG 320	Biological Oceanography	3
GEOS 430	Global Science and Policy Making	3	Select the remaining courses from the following:		
GEOS 431	Environmental Regulatory Compliance in Geoscience	3	BIOL 214	Genes, Ecology and Evolution	3
OCNG 350	Marine Pollution	3	BIOL 357	Ecology	3
OCNG 413	Polar Regions of the Earth: Science, Society and Discovery	3	BESC 401	Bioenvironmental Microbiology	3
RWFM 420	Ecology and Society	3	BESC 402	Microbial Processes in Bioremediation	3
SENG 321	Safety Management Systems	3	ECCB 307	Forest Protection	3
URPN 361	Urban Issues	3	ECCB 309	Forest Ecology	3
Water			ECCB 320	Ecosystem Restoration and Management	3
GEOG 434	Hydrology and Environment	4	ECCB 403	Population and Community Ecology	3
GEOL 410	Hydrogeology	3	ECCB 416	Fire Ecology and Natural Resource Management	3
Select the remaining courses from the following:			ECCB 420	Ecological Restoration of Wetland and Riparian Systems	3
AGSM 335	Water and Soil Management	3	ECCB 430	Advanced Restoration Ecology	3
AGSM 337	Technology for Environmental and Natural Resource Engineering	3	GENE 302	Principles of Genetics	4
ATMO 251	Weather Observation and Analysis	3	& GENE 312	and Comprehensive Genetics Laboratory	
ATMO 335	Atmospheric Thermodynamics	3	GENE 412	Population, Quantitative and Ecological Genetics	3
ATMO 352	Severe Weather and Mesoscale Forecasting	3	GEOG 435	Principles of Plant Geography	3
ATMO 443	Radar Meteorology	3	GEOG 442/ GEOS 442	Past Climates	3
BESC 320	Water and the Bioenvironmental Sciences	3	GEOL 314	Paleontology and Geobiology	4
ECCB 301	Diversity and Evolution of Plants	3	GEOL 442/ GEOG 442	Past Climates	3
ECCB 420	Ecological Restoration of Wetland and Riparian Systems	3	GEOL 443/ GEOG 443	Global Biogeochemical Cycles	3
GEOG 324	Global Climatic Regions	3	OCNG 425	Microbial Oceanography	3
GEOG 331	Geomorphology	3	OCNG 453	Hydrothermal Vents and Mid-Ocean Ridges	3
GEOG 360	Natural Hazards	3	RWFM 306	Wildlife and the Changing Environment	3
GEOG 400	Arid Lands Geomorphology	3	RWFM 404	Aquatic Ecosystems	3
GEOL 412	Environmental Hydrogeology	3	RWFM 419	Wildlife Restoration	3
GEOL 440	Engineering Geology	3	SCSC 301	Soil Science	4
GEOL 443/ GEOG 443	Global Biogeochemical Cycles	3	SCSC 405	Soil and Water Microbiology	3
GEOL 451	Introduction to Geochemistry	3			
OCNG 340	Chemical Oceanography	3			
OCNG 350	Marine Pollution	3			
OCNG 413	Polar Regions of the Earth: Science, Society and Discovery	3			
OCNG 425	Microbial Oceanography	3			
RWFM 404	Aquatic Ecosystems	3			
RWFM 325	Watershed Analysis and Planning	3			

Code	Title	Semester Credit Hours	Code	Title	Semester Credit Hours
Technical Electives			PHYS 202	College Physics	4
AGSM 337	Technology for Environmental and Natural Resource Engineering	3	PHYS 207	Electricity and Magnetism for Engineering and Science	3
AGSM 360	Occupational Safety Management	3	PHYS 227	Electricity and Magnetism Laboratory for the Sciences	1
ATMO 321	Computer Applications in the Atmospheric Sciences	3	STAT 212	Principles of Statistics II	3
ATMO 464	Laboratory Methods in Atmospheric Sciences	3	STAT 335/ CSCE 320	Principles of Data Science	3
BESC 403	Sampling and Environmental Monitoring	3	STAT 407	Principles of Sample Surveys	3
CHEM 227	Organic Chemistry I	3	Code Title Semester Credit Hours		
CHEM 228	Organic Chemistry II	3	Environmental Policy Electives		
CHEM 237	Organic Chemistry Laboratory	1	AGEC 350	Environmental and Natural Resource Economics	3
CHEM 238	Organic Chemistry Laboratory	1	AGEC 420	Food Security, Climate and Conflict	3
CHEM 383	Chemistry of Environmental Pollution	3	AGEC 422	Land Economics	3
CHEM 483	Green Chemistry	3	ANTH 461	Environmental Archaeology	3
ECCB 308	Fundamentals of Environmental Decision-Making	3	ARCH 213	Sustainable Architecture	3
ECCB 406/ GEOG 462	Advanced GIS Analysis for Natural Resources Management	3	ARCH 421	Energy and Sustainable Architecture	3
ECCB 444	Remote Sensing of the Environment	3	ATMO 444	The Science and Politics of Global Climate Change	3
GEOG 312	Data Analysis in Geography	3	BESC 311	International Perspectives on Environmental Issues	3
GEOG 352/ GEOG 352	GNSS in the Geosciences	3	BESC 367	U.S. Environmental Regulations	3
GEOG 361	Remote Sensing in Geosciences	4	BESC 411	Environmental Health and Safety Compliance	3
GEOG 380	Workshop in Environmental Studies	2-6	ECCB 460/ RPTS 460	Nature, Values, and Protected Areas	3
GEOG 391	Geodatabases	4	ECON 202	Principles of Economics	3
GEOG 392	GIS Programming	4	ECON 203	Principles of Economics	3
GEOG 398	Interpretation of Aerial Photographs	3	ECON 323	Microeconomic Theory	3
GEOG 450	Field Geography	3	GEOG 304	Economic Geography	3
GEOG 461	Digital Image Processing in the Geosciences	4	GEOG 306	Introduction to Urban Geography	3
GEOG 462/ ECCB 406	Advanced GIS Analysis for Natural Resources Management	3	GEOG 309	Geography of Energy	3
GEOG 467	Dynamic Modeling of Earth and Environmental Systems	4	GEOG 401	Political Geography	3
GEOG 475	Advanced Topics in GIS (Geographic Information Systems)	4	GEOG 406	Geographic Perspectives on Contemporary Urban Issues	3
GEOG 477	Terrain Analysis and Mapping	4	GEOG 430	Environmental Justice	3
GEOG 478	WebGIS	4	GEOS 430	Global Science and Policy Making	3
GEOG 777	Terrain Analysis and Mapping	4	PHIL 314	Environmental Ethics	3
GEOG 778	WebGIS	4	PHLT 330	The Environment and Public Health	3
GEOG 779	Terrain Analysis and Mapping	4	POLS 347	Politics of Energy and the Environment	3
GEOG 780	WebGIS	4	PSAA 440	Public Policies and Policymaking	3
GEOG 781	Terrain Analysis and Mapping	4	RELS 420	Religion and the Environment	3
GEOG 782	WebGIS	4	RWFM 375	Conservation of Natural Resources	3
GEOG 783	Terrain Analysis and Mapping	4	RWFM 470	Environmental Impact Assessment	3
GEOG 784	WebGIS	4	SOCI 328	Environmental Sociology	3
GEOG 785	Terrain Analysis and Mapping	4	SOCI 450/ MGMT 478	Social Entrepreneurship	3
GEOG 786	WebGIS	4	URPN 202	Building Better Cities	3
GEOG 787	Terrain Analysis and Mapping	4	URPN 203	Smart Cities - Bit, Bots and Beyond	3
GEOG 788	WebGIS	4	URPN 360	Issues in Environmental Quality	3
GEOG 789	Terrain Analysis and Mapping	4			
GEOG 790	WebGIS	4			
GEOG 791	Terrain Analysis and Mapping	4			
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GEOG 800	WebGIS	4			
GEOG 801	Terrain Analysis and Mapping	4			
GEOG 802	WebGIS	4			
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GEOG 976	WebGIS	4			
GEOG 977	Terrain Analysis and Mapping	4			

URPN 361	Urban Issues	3
URPN 371	Environmental Health Planning and Policy	3
URPN 460	Sustainable Communities	3
URPN 467	Land and Property Aspects of Sustainable Development	3